

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please cancel claims 1-17 and add new claims 18-37 in accordance with the following:

Claims

1-17 (canceled)

18. (New) An electrical device comprising:

a substrate;

an electrical component mounted on the substrate so as to define a surface contour between the electrical component and the substrate; and

at least one electrical insulating film provided on the substrate and on the electrical component to electrically insulate the electrical component, the insulating film having a border section in contact with the electrical component and the substrate where the insulating film has a surface contour following the surface contour formed between the electrical component and the substrate, wherein

the border section of the insulating film has a dielectric strength to withstand an electrical field strength of at least 10 kV/mm.

19. (New) The electrical device as claimed in claim 18, wherein the field strength is within a range of from 10 kV/mm inclusive to 200 kV/mm inclusive.

20. (New) The electrical device as claimed in claim 18, wherein the surface contour formed between the electrical component and the substrate has at least one geometric shape chosen from the group consisting of a corner and an edge.

21. (New) The electrical device as claimed in claim 18, wherein at least the border section of the insulating film is formed of a multi-layer structure.

22. (New) The electrical device as claimed in claim 18, wherein at least the border section of the insulating film has an essentially constant film strength.
23. (New) The electrical device as claimed in claim 18, wherein the border section of the insulating film has a different film strength compared to a further section of the insulating film.
24. (New) The electrical device as claimed in claim 18, wherein at least the border section of the insulating film is preformed.
25. (New) The electrical device as claimed in claim 18, wherein the insulating film is formed of at least one plastic selected from the group consisting of polyacrylates, polyimides, polyethylenes, polyphenols, polyetheretherketones, polytetrafluorethylenes and epoxies.
26. (New) The electrical device as claimed in claim 18, wherein the insulating film is formed of a composite material containing a plastic and at least one filler material different from the plastic.
27. (New) The electrical device as claimed in claim 26, wherein the filler material has a mesh form.
28. (New) The electrical device as claimed in claim 26, wherein the filler material is thermally conductive.
29. (New) The electrical device as claimed in claim 18, wherein the surface contour formed between the electrical component and the substrate has a height difference in a range of from 200 μm inclusive to 1000 μm inclusive.
30. (New) The electrical device as claimed in claim 18, wherein the electrical component is a semiconductor component.
31. (New) The electrical device as claimed in claim 30, wherein the semiconductor component is a power semiconductor component selected from the group consisting of MOSFETs, IGBTs and bipolar transistors.

32. (New) The electrical device as claimed in claim 19, wherein at least the border section of the insulating film is formed of a multi-layer structure.

33. (New) The electrical device as claimed in claim 32, wherein at least the border section of the insulating film has an essentially constant film strength.

34. (New) A method for producing an electrical device, comprising:
mounting an electrical component on a substrate so as to define a surface contour between the electrical component and the substrate; and
laminating an insulating film onto the electrical component and onto the substrate to electrically insulate the electrical component, the insulating film having a border section with a surface contour following the surface contour formed between the electrical component and the substrate,
wherein the border section of the insulating film has a dielectric strength to withstand an electrical field strength of at least 10 kV/mm.

35. (New) The method as claimed in claim 34, wherein the insulating film is laminated in a partial vacuum.

37. (New) The method as claimed in claim 34, wherein a tempering step is performed during and/or after the insulating film is laminated.